CLAIMS

What is claimed is:

1	1. An integrated circuit receiver device for receiving digitally modulated broadcast
2	signals from a satellite, said integrated circuit receiver device comprising:
3	a tuner for amplifying and filtering satellite signals received from said
4	antenna;
5	a demodulator, coupled to said tuner, for demodulating and decoding said
6	received satellite signals;
7	a low-noise block (LNB) controller for generating and detecting a modulated
8	tone to facilitate communications between said integrated circuit receiver device and
9	an LNB feed attached to said antenna;
10	a voltage controller for generating a control signal to an external power
11	transistor; and
12	a voltage selector for directing said voltage controller to supply a variable
13	voltage to said LNB feed attached to said antenna.

- 2. The integrated circuit receiver device of Claim 1, wherein said voltage controller receives a current sensing feedback from an external current sensor coupled to a power transistor.
- The integrated circuit receiver device of Claim 2, wherein said external current sensor includes a resistor connected between power transistor and ground.
- 1 4. The integrated circuit receiver device of Claim 2, wherein said external components includes an inductor, a diode and a capacitor.
- 5. The integrated circuit receiver device of Claim 1, wherein said voltage controller receives a voltage sensing feedback from an external voltage sensor coupled to an external line feed.
- 1 6. The integrated circuit receiver device of Claim 5, wherein said external voltage sensor includes two resistors connected in series.
- 7. The integrated circuit receiver device of Claim 1, wherein said integrated circuit receiver device is a complementary-metal oxide semiconductor device.

SILA0002 - 12 -

1	8. A satellite signal receiving system for receiving digitally modulated broadcast
2	signals from a satellite, said satellite signal receiving system comprising:
3	a receiver antenna having a low-noise block (LNB) amplifier and an LNB
4	feed; and
5	an integrated circuit receiver device having
6	a tuner for amplifying and filtering satellite signals received from
7	said receiver antenna;
8	a demodulator, coupled to said tuner, for demodulating and decoding
9	said received satellite signals;
10	an LNB controller for generating and detecting a modulated tone to
11	facilitate communications between said integrated circuit receiver
12	device and said LNB feed attached to said receiver antenna;
13	a voltage controller for generating a control signal to an external
14	power transistor; and
15	a voltage selector for directing said voltage controller to supply a
16	variable voltage to said LNB feed attached to said receiver antenna.

SILA0002 - 13 -

9. The satellite signal receiving system of Claim 8, wherein said voltage controller 1 receives a current sensing feedback from an external current sensor coupled to a power 2 3 transistor. 10. The satellite signal receiving system of Claim 8, wherein said external current sensor 1 includes a resistor connected between power transistor and ground. 2 11. The satellite signal receiving system of Claim 9, wherein said external components 1 includes an inductor, a diode and a capacitor. 2 12. The satellite signal receiving system of Claim 8, wherein said voltage controller 1 receives a voltage sensing feedback from an external voltage sensor coupled to an external 2 line feed. 3 13. The satellite signal receiving system of Claim 12, wherein said external voltage 1 sensor includes two resistors connected in series. 2 14. The satellite signal receiving system of Claim 8, wherein said integrated circuit 1 receiver device is a complementary-metal oxide semiconductor device. 2 15. The satellite signal receiving system of Claim 8, wherein said receiver antenna is 1 a directional receiver antenna. 2

SILA0002 - 14 -